SAFETY DATA SHEETS

This SDS packet was issued with item:

071492602

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071492594 510009246

SAFETY DATA SHEET

Page 1 of 6 SDS-019

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

| | Product Name: | 1. | | | | | | | | | | | | |
|--------------------|---|--|---|--|--|--|---|---|---|--|--|---|--|-------|
| 1.1 | Product Name: | DENTA | L MODEL | SLATE & | | IE | | | | | | | | |
| .2 | Chemical Name: | NA | | | | | | | | | | | | |
| .3 | Synonyms: | NA | | | | | | | | | | | | |
| .4 | Trade Names: | | lel Slate & Stone |) | | | | | | | | | | |
| .5 | Product Uses & Restrictions: | | al Use Only | | | | | | | | | | | |
| .6 | Distributor's Name: | SprintRay, | | | | | | | | | | | | |
| .7 | Distributor's Address: | 2710 Media | a Center Drive, # | 100A, Los Ang | geles, CA § | 90065 | USA | | | | | | | |
| .8 | Emergency Phone: | CHEM | [REC: +1 (| 703) 527- | 3887 // | +1 (| 800) |) 424 | -93 | 00 | | | | |
| .9 | Business Phone / Fax: | Tel: +1 (80 | 0) 914-8004 | | | | | | | | | | | |
| | | | 2. H | AZARDS | IDENT | IFIC | ΑΤΙΟ | ON | | | | | | |
| 2.1 | Hazard Identification: | Canadian V WARNING LONG LAS Classificatio | n accordance wi VHMIS and Aust I CAUSES SKI TING EFFECTS on: Skin Irrit. 2, S tements (H): H3 | tralian Work He N IRRITATION S. Skin Sens. 1B, | ealth and S I. CAUSE Eye Irrit. 2 | Safety s S SEF A; Aq. | standa RIOUS Chron | rds. EYE I ic 2 | RRITA | ATION. | . то) | | | |
| | | H319 – Ca <u>Precaution</u> hands and Contamina the environ ON SKIN: | ary <u>Statements</u> exposed skin a ted work clothing ment. P280 – V Wash with plen | e irritation. H41 (P): P261 – A areas thorough g should not be Vear protective | 1 – Toxic Avoid brea aly with sc allowed o gloves/ey | to aqua athing f pap an put of t ve prote | atic life fume/n d warr he wo ection/ | e with le nist/va m wate rkplace face p | ong la pors/s er afte e. P27 rotecti | sting e pray. r hanc 73 – Av on. P3 | ffects. P264 dling. void re 302+P | – Wa P272 elease 352 – | ash 2 — e to - IF | |
| 2.3 | Other Warnings: | Continue ri irritation pe advice/atte see sectior before reus to a license | with water for s insing. P332+P ersists: Get me ntion. P318 – IF n 4 (First Aid) of se. P391 – Collec ad treatment, sto OF REACH OF COMPOSIT | several minute 317 – If skin ir dical help. F exposed or cc this SDS. P3 ot spillage. P405 rage, or dispos | s. Remove rritation oc 2308+P313 oncerned, g 362+P364 5 – Store lo al facility (| e conta curs: (3 – IF get me – Take ocked u TSDF) | act ler Get me expo dical a e off c up. P50 | nses, i edical sed o dvice. ontami 01 – Di | f pres nelp. P321 nated spose | ent an P337+ cerned: - Spe clothir of cont | d eas P317 : Get cific tr ng and tents/o | sy to o – If e medi eatme d wash contain | do. eye cal ent: h it ner | |
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| | CAL NAME(S) HANE ACRYLATE DMERIC ACRYLATE DMERIC DIACRYLATE OMERIC DIACRYLATE | Continue ri irritation pe advice/atte see sectior before reus to a license KEEP OUT 3. C CAS No. NA Skin Irrit. 2, SI NA Skin Irrit. 2, SI NA Skin Sens. 1B NA Flam. Liq. 3; A NA | with water for sinsing. P332+P ersists: Get me ntion. P318 – IF n 4 (First Aid) of ee. P391 – Collec ed treatment, sto OF REACH OF COMPOSIT COF REACH OF COMPOSIT NA NA kin Sens. 1B, Aq. C NA kin Sens. 1B, Eye NA kin Sens. 1B, Eye NA kuter Tox. 4 *; Acu NA | Several minute 317 – If skin ir dical help. F exposed or cc this SDS. P3 tspillage. P405 rage, or dispos CHILDREN. ION & INO EINECS No. NA NA Chronic 2; H315, H NA Dam. 1; H315, H5 NA 317, H411 NA | s. Remover ritation oc 2308+P313 sincerned, g 362+P364 5 – Store lo al facility (GREDI 20-50 10-30 1317, H411 10-30 317, H318 10-30 | e conta cours: (3 – IF get me – Take ocked u TSDF) ENT Ac Pr TLV NA NA NA | Act ler Get me expo dical a e off c up. P50 | NF NF NF | f pres nelp. r cond P321 nated spose MAT ExPO NOHSC Ppm ES- STEL NF NF | ent an P337+ cerned: - Spec clothir of cont ION SURE L ES- PEAK NF NF | MITS II MITS II PEL NA NA NA NA | v AIR (n v | do. eye cal ent: h it ner <u>ng/m³)</u> <u>NA</u> <u>NA</u> <u>NA</u> | |
| | CAL NAME(S) HANE ACRYLATE DMERIC ACRYLATE DMERIC DIACRYLATE OMERIC DIACRYLATE | Continue ri irritation pe advice/atte see sectior before reus to a license KEEP OUT 3. C CAS No. NA Skin Irrit. 2, SI NA Skin Irrit. 2, SI NA Skin Sens. 1B NA Flam. Liq. 3; A | with water for sinsing. P332+P ersists: Get me ntion. P318 – IF n 4 (First Aid) of ee. P391 – Collec ed treatment, sto OF REACH OF COMPOSIT COF REACH OF COMPOSIT NA NA kin Sens. 1B, Aq. C NA kin Sens. 1B, Eye NA kin Sens. 1B, Eye NA kuter Tox. 4 *; Acu NA | EINECS No. NA EINECS No. NA Chronic 2; H315, H NA Chronic 2; H315, H NA Chronic 4; Acute | s. Remover ritation oc 2308+P313 sincerned, g 362+P364 5 – Store lo al facility (GREDI 20-50 10-30 10-30 10-30 11-5 1-5 Tox. 4 *; S | e conta cours: (3 – IF get me – Take ocked u TSDF) ENT Acc Pr TLV NA NA NA | Act ler Get me expo dical a e off c ip. P50 | NF NF NF NF NF NF | f pres nelp. r cond P321 nated spose /ATT ExPO NOHSC Ppm ES- STEL NF NF NF NF | ent an P337+ cerned: - Spec clothir of cont ION SURE L ES- PEAK NF NF NF NF NF NF | d eas P317 : Get cific tr ag and tents/c MITS II NA NA NA NA NA | V AIR (n OSHA Ppm STEL NA NA NA NA NA | do. eye cal ent: h it ner IDLH NA NA NA NA NA | |

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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

| | | | 4. FIRST AID MEASURES | | | | |
|-----|---|---|--|---|---|---|---|
| 4.1 | First Aid: | Ingestion: Eyes: Skin: | If ingested, do not induce vomiting. If product has IMMEDIATELY. If the patient is vomiting, continue to of unconscious person. Contact the nearest Poison Contro estimate of the time at which the material was ingested and Splashes are not likely; however, if product gets in the ey for at least 15 minutes lifting upper and lower lids, occasi Wash thoroughly with soap and water. In case of contact least 15 minutes. | fer water or ol Center or lo d the amount es, flush with onally. t, immediatel | milk. Neven ocal emerge of the subst copious an y flush skin | give water ncy number ance that wa ounts of luk with plenty o | or milk to a . Provide a as swallowe aewarm wat of water for |
| | | Inhalation: | Remove victim to fresh air at once. If breathing difficult, a respiration. Keep person warm, quiet and get medical at | tention. | ygen. If bre | athing stops | give artific |
| 4.2 | Effects of Exposure: | Ingestion: Eyes: | If product is swallowed, may cause nausea, vomiting and Moderately irritating to the eyes. Symptoms of overexper- watering. | | clude redne | ess, itching, | irritation ar |
| | | <u>Skin</u> : | May be irritating to skin. The product can cause allergic some sensitive individuals. | skin reactio | ns (e.g., ras | hes, welts, | dermatitis) |
| | | Inhalation: | None expected. | | | | |
| 4.3 | Symptoms of Overexposure: | Ingestion: <u>Eyes</u> : <u>Skin</u> : | Nausea, intestinal discomfort, vomiting and/or diarrhea. Overexposure in eyes may cause redness, itching and wa Symptoms of skin overexposure may include redness, itcl symptoms. The product can cause allergic skin read individuals. | hing, and irrit | | | |
| 4.4 | Acute Health Effects: | Non-irritating | when used as directed. Moderate irritation to eyes and sk | in near affec | ted areas. | | |
| 4.5 | Chronic Health Effects: | Non-irritating | ywhen used as directed. Overexposure may also induce s rgic dermatitis. | | | piratory hyp | persensitivit |
| 4.6 | Target Organs: | Eyes, Skin. | | | | | |
| 4.7 | Medical Conditions Aggravated by Exposure: | | dermatitis, other skin conditions, and disorders of the s (eyes, skin). | HEALTH FLAMMA | | | 2 |
| | | | | - | L HAZARI TIVE EQUI | | 0 B |
| | | | | EYES | SKIN | | |
| | | | 5. FIREFIGHTING MEASURES | | | | |
| 5.1 | Fire & Explosion Hazards: | | I can burn but will not readily ignite. However, if involve at high temperatures to form toxic gases (e.g., CO, CO_X Hy | | | may | |
| 5.2 | Extinguishing Methods: | CO ₂ , Dry Ch | emical, Alcohol foam, Dry Chemical. Use water spray to co | ool container | S. | | |
| 5.3 | Firefighting Procedures: | fire, wear M protective ge exposed sur storage cont entering sew bunker gear | ners cool until well after the fire is out. Fight fires as for sum SHA/NIOSH approved self-contained breathing apparatus ear. Keep containers cool until well after the fire is out. faces and to protect personal. Fight fire upwind. Avoid ainers because of danger of boil-over. Prevent runoff fror vers, drains, drinking water supply, or any natural waterwa including NIOSH-approved positive pressure self-contain st potential hazardous combustion or decomposition produ | (pressure-d Use water sp spraying wa n fire control y. Firefighte ned breathir | emand) and bray to cool ater directly or dilution t ers must use ng apparatu | full fire- into rom full s to | |
| | | | 6. ACCIDENTAL RELEASE MEASUR | RES | | | |
| 6.1 | Spills: | Equipment. For <u>small Sp</u> Use a non-c disposal. Do For <u>large Sp</u> material (e.g containers fo | ning any spill or leak, individuals involved in spill clear Plastic or rubber gloves, respirator, eye protection and apro- ills (e.g., < 1 gallon (3.8 L)) wear appropriate protective eq ombustible material such as vermiculite or sand to soak u o not use water or a material such as "speedy dry" to soak u o not use water or a material su | on may be re uipment inclu p the produc up material. away from s / or disposal | quired for cl uding gloves and place pill. Dike a and solid di | ean-up of la and protect into a conta nd contain s king materia | rge spills. tive eyewea ainer for lat spill with ine al to separa |

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| | | 7. HANDLIN | G & S | TOR | AGE IN | IFORM | IATION | | | | |
|-----|--|---|----------|--------|-----------|-------------|---------------------------------------|-------|---------|-------------|------------------|
| 7.1 | Work & Hygiene Practices: | Do not eat, drink, or smoke wh and dusts. Wash thoroughly a within the working area. | | | | | | | | | |
| 7.2 | | | | | | | d storage. Keep reach of children. | | | | |
| 7.3 | Special Precautions: | Read and understand the mar skin contact. Clean all spills p not in use. Empty containers n with care. | romptly. | Open c | ontainers | slowly on a | a stable sur | face. | Keep co | ntainer tig | htly closed when |
| | | 8. EXPOSURE CO | ITRO | LS & | PERS | ONAL | PROTE | СТІС | ON | | |
| 8.1 | Exposure Limits: | | | GIH | | NOHSC | | | OSH | A | OTHER |
| | ppm (mg/m ³) | CHEMICAL NAME(S) | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | |
| 8.2 | Ventilation & Engineering Controls: | General mechanical (e.g., fans | , | | | | | | | | 0 |

| 0.2 | Controls: | ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this p appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). | |
|-----|-------------------------|---|-----|
| 8.3 | Respiratory Protection: | No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. | |
| 8.4 | Eye Protection: | Wear chemical splash proof goggles and/or face shield. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). | |
| 8.5 | Hand Protection: | Wear impervious resistant gloves when using or handling this product. When handling large quantities of fluid (e.g., \geq 1 gallon (3.8 L)), wear rubber, nitrile or impervious plastic gloves. | |
| 8.6 | Body Protection: | No apron required. Eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product (fluid), wash any exposed areas thoroughly with soap and water. | E S |

| | 9. PHYSICAL & CHEMICAL PROPERTIES | | | | | | |
|------|---|----------------------------|--|--|--|--|--|
| 9.1 | Appearance: | Gray to black liquid resin | | | | | |
| 9.2 | Odor: | NA | | | | | |
| 9.3 | Odor Threshold: | NA | | | | | |
| 9.4 | pH: | NA | | | | | |
| 9.5 | Melting Point/Freezing Point: | NA | | | | | |
| 9.6 | Initial Boiling Point/Boiling Range: | NA | | | | | |
| 9.7 | Flashpoint: | NA | | | | | |
| 9.8 | Upper/Lower Flammability Limits: | NA | | | | | |
| 9.9 | Vapor Pressure: | NA | | | | | |
| 9.10 | Vapor Density: | NA | | | | | |
| 9.11 | Relative Density: | NA | | | | | |
| 9.12 | Solubility: | NA | | | | | |
| 9.13 | Partition Coefficient (log Pow): | NA | | | | | |
| 9.14 | Autoignition Temperature: | NA | | | | | |
| 9.15 | Decomposition Temperature: | NA | | | | | |
| 9.16 | Viscosity: | NA | | | | | |
| 9.17 | Other Information: | NA | | | | | |

| | 10. STABILITY & REACTIVITY | | | | | | |
|------|--------------------------------------|---|--|--|--|--|--|
| 10.1 | Stability: | Relatively stable under ambient conditions when stored properly. | | | | | |
| 10.2 | Hazardous Decomposition Products: | If exposed to <u>extremely high temperatures</u> , products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon & nitrogen). | | | | | |
| 10.3 | Hazardous Polymerization: | May occur, if exposed to extremely high temperatures. | | | | | |
| 10.4 | Conditions to Avoid: | Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame. | | | | | |
| 10.5 | Incompatible Substances: | Strong oxidizers, peroxides, strong alkalis or acids, UV light | | | | | |

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| | | 11. TOXICOLOGI | CAL INFORM | ATION | | | | |
|------|------------------------------|---|--------------------------|-----------------------|----------------------|-----------------------|--|--|
| 11.1 | Routes of Entry: | Inhalation: NO | Absorption: | YES | Ingestion: | YES | | |
| 11.2 | Toxicity Data: | This product has NOT been tested on anir available for some of the components of the | | | | ntific literature, is | | |
| 11.3 | Acute Toxicity: | See Section 4.4 | | | | | | |
| 11.4 | Chronic Toxicity: | See Section 4.5 | | | | | | |
| 11.5 | Suspected Carcinogen: | NA | | | | | | |
| 11.6 | Reproductive Toxicity: | This product contains Diphenyl (2,4,6-Trimethyl-Benzoyl) Phosphine Oxide which is reported to cause reproductive effects in humans. | | | | | | |
| | Mutagenicity: | This product is not reported to produce mu | tagenic effects in hum | nans. | | | | |
| | Embryotoxicity: | This product is not reported to produce embryotoxic effects in humans. | | | | | | |
| | Teratogenicity: | This product is not reported to cause terate | ogenic effects in huma | ins. | | | | |
| | Reproductive Toxicity: | This product is not reported to cause repro | ductive effects in hum | ans. | | | | |
| 11.7 | Irritancy of Product: | The product can cause allergic skin reaction | ons (e.g., rashes, welts | s, dermatitis) upon p | prolonged or repeate | ed exposure. | | |
| 11.8 | Biological Exposure Indices: | NE | | | | | | |
| 11.9 | Physician Recommendations: | Treat symptomatically. | | | | | | |
| | | 12. ECOLOGIC | | ΓΙΟΝ | | | | |
| 12.1 | Environmental Stability: | There are no specific data available for this | s product. WGK 2 (Hi | gh hazard to waters | 5) | | | |
| 12.2 | Effects on Plants & Animals: | There are no specific data available for this | s product. | - | • | | | |
| 12.3 | Effects on Aquatic Life: | There are no specific data available for thi to overexposed aquatic life. | s product; however, ve | ery large releases o | f this product may b | e harmful or fatal | | |

13. DISPOSAL CONSIDERATIONS

| 13.1 | Waste Disposal: | Products covered by this SDS, in their original form, when disposed as waste, are considered non-hazardous waste |
|------|-------------------------|---|
| | | according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state, and federal |
| | | regulations. Dispose of in accordance with federal, state and local regulations. |
| 13.2 | Special Considerations: | NA |
| | | |

14. TRANSPORTATION INFORMATION

| | | nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transpor e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. | tation. Additional |
|------|----------------------|--|--------------------|
| 14.1 | 49 CFR (GND): | NOT REGULATED | |
| 14.2 | IATA (AIR): | NOT REGULATED | |
| 14.3 | IMDG (OCN): | NOT REGULATED | |
| 14.4 | TDGR (Canadian GND): | NOT REGULATED | |
| 14.5 | ADR/RID (EU): | NOT REGULATED | |
| 14.6 | SCT (MEXICO): | NOT REGULATED | |
| 14.7 | ADGR (AUS): | NOT REGULATED | |

| | | 15. REGULATORY INFORMATION |
|------|--------------------------------------|--|
| 15.1 | SARA Reporting Requirements: | This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements. |
| 15.2 | SARA Threshold Planning Quantity: | There are no specific Threshold Planning Quantities for the components of this product. |
| 15.3 | TSCA Inventory Status: | The components of this product are listed on the TSCA Inventory. |
| 15.4 | CERCLA Reportable Quantity (RQ): | NA |
| 15.5 | Other Federal Requirements: | NA |
| 15.6 | Other Canadian Regulations: | This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. |
| 15.7 | State Regulatory Information: | Diphenyl(2,4,6-Trimethyl-Benzoyl) Phosphine Oxide is found on the following criteria list: NJ and PA. No other hazardous ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov. |
| 15.8 | Other Requirements: | This product is found on the following inventory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC, Japan – ENCS; Korea – KECI; New Zealand – NZIoC; Philippines – PICCS; USA – TSCA |

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| | | 16. OTHER INFO | ORMATION |
|------|----------------------|--|---|
| 16.1 | Other Information: | LONG LASTING EFFECTS. Avoid breathing fume/mist/vapors/spray. Wash h handling. Contaminated work clothing should n Wear protective gloves/eye protection/face prote EYES: Rinse cautiously with water for several r rinsing. If skin irritation occurs: Get medical help Get medical advice/attention. IF exposed or con | USES SERIOUS EYE IRRITATION. TOXIC TO AQUATIC LIFE WITH ands and exposed skin areas thoroughly with soap and warm water after ot be allowed out of the workplace. Avoid release to the environment. ection. IF ON SKIN: Wash with plenty of soap and warm water. IF IN minutes. Remove contact lenses, if present and easy to do. Continue b. If eye irritation persists: Get medical help. IF exposed or concerned: cerned, get medical advice. Specific treatment: see section 4 (First Aid) wash it before reuse. Collect spillage. Store locked up. CHILDREN. |
| 16.2 | Terms & Definitions: | See last page of this Safety Data Sheet. | |
| 16.3 | Disclaimer: | government regulations must be reviewed for ap knowledge, the information contained herein is completeness is not guaranteed and no warrantie contained herein relates only to the specific prod | DSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's & SprintRay, Inc.'s, reliable and accurate as of this date; however, accuracy, suitability or as of any type, either expressed or implied, are provided. The information uct(s). If this product(s) is combined with other materials, all component anged from time to time. Be sure to consult the latest edition. |
| 16.4 | Prepared for: | SPRINTRAY, INC. 2710 Media Center Drive, Suite100A Los Angeles, CA 90065 USA Tel: +1 (800) 914-8004 http://www. <u>sprintray.com</u> | SprintRay |
| 16.5 | Prepared by: | ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com | ShipMate Dangerous Goods Training & Consulting |

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

| CAS No. | Chemical Abstract Service Number |
|------------|--|
| RTECS No. | Registry of Toxic Effects of Chemical Substances Number |
| EINECS No. | European Inventory of Existing Commercial Chemical Substances Number |

EXPOSURE LIMITS IN AIR:

| ACGIH | American Conference on Governmental Industrial Hygienists | | | | |
|-------|--|--|--|--|--|
| IDLH | IDLH Immediately Dangerous to Life and Health | | | | |
| NOHSC | NOHSC National Occupational Health and Safety Commission (Australia) | | | | |
| OSHA | OSHA U.S. Occupational Safety and Health Administration | | | | |
| PEL | PEL Permissible Exposure Limit | | | | |
| STEL | Short Term Exposure Limit | | | | |
| TLV | TLV Threshold Limit Value | | | | |
| TWA | Time Weighted Average | | | | |
| | | | | | |

FIRST AID MEASURES:

| CPR | Cardiopulmonary resuscitation - method in which a person whose heart has | | | | | |
|-----|---|--|--|--|--|--|
| | stopped receives manual chest compressions and breathing to circulate blood | | | | | |
| | and provide oxygen to the body. | | | | | |

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

| 0 | Minimal Hazard | HEALTH |
|---|-----------------|---------------------|
| 1 | Slight Hazard | FLAMMABILITY |
| 2 | Moderate Hazard | PHYSICAL HAZARDS |
| 3 | Severe Hazard | PERSONAL PROTECTION |
| 4 | Extreme Hazard | |

PERSONAL PROTECTION RATINGS:

| A | | G 🕞 🌘 | | | | | | | |
|----------------------|---------------------------------------|-------------------------------------|--|--|--|--|--|--|--|
| в 🚱 🕚 | | н 🚱 🌘 | | | | | | | |
| c 🚱 🜒 | | I 🕞 🌘 | | | | | | | |
| D 🚱 🕚 | | J 🙆 🕻 | | | | | | | |
| Е 🚱 🕚 | | к 🗿 🌘 | | | | | | | |
| F 🜍 🖤 | | | supervisor or SOPs for ng directions. | | | | | | |
| Safety Glasses | Splash Goggles | Face Shield & Protective Eyewear | Gloves | | | | | | |
| Boots | Protective Apron | Protective Clothing & Full Suit | Dust Respirator | | | | | | |
| Full Face Respirator | Dust & Vapor Half- Mask Respirator | Full Face Respirator | Airline Hood/Mask or SCBA | | | | | | |

OTHER STANDARD ABBREVIATIONS:

| Carc | Carcinogenic | | | | |
|---------|--|--|--|--|--|
| Irrit | Irritant | | | | |
| NA | ot Available | | | | |
| NR | NR No Results | | | | |
| ND | ND Not Determined | | | | |
| NE | NE Not Established | | | | |
| NF | NF Not Found | | | | |
| SCBA | Self-Contained Breathing Apparatus | | | | |
| Sens | Sens Sensitization | | | | |
| STOT RE | Specific Target Organ Toxicity – Repeat Exposure | | | | |
| STOT SE | Specific Target Organ Toxicity – Single Exposure | | | | |

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

| FLAMMABILITY LIMITS IN AIR: | | | | | | |
|---|--|--|--|--|--|--|
| Autoignition Minimum temperature required to initiate combustion in air with no other | | | | | | |
| Temperature of ignition | | | | | | |
| LEL | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode | | | | | |
| | or ignite in the presence of an ignition source | | | | | |
| UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that v | | | | | | |
| explode or ignite in the presence of an ignition source | | | | | | |

HAZARD RATINGS:

| 0 | Minimal Hazard | FLAMMABILITY |
|---------|-----------------|--------------|
| 1 | Slight Hazard | |
| 2 | Moderate Hazard | REACTIVITY |
| 3 | Severe Hazard | |
| 4 | Extreme Hazard | |
| ACD | Acidic | |
| ALK | Alkaline | |
| COR | Corrosive | |
| W | Use No Water | HEALTH |
| ох | Oxidizer | SPECIAL |
| TREFOIL | Radioactive | PRECAUTIONS |

TOXICOLOGICAL INFORMATION:

| LD ₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |
|--|---|
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD _{lo} | Lowest dose to cause a symptom |
| TCLo | Lowest concentration to cause a symptom |
| TD _{io} , LD _{io} , & LD _o or | Lowest dose (or concentration) to cause lethal or toxic effects |
| TC, TC _o , LC _{io} , & LC _o | |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| BCF | Bioconcentration Factor |
| TLm | Median threshold limit |
| log Kow or log Koc | Coefficient of Oil/Water Distribution |

REGULATORY INFORMATION:

| WHMIS | Canadian Workplace Hazardous Material Information System | | | | | |
|-------|--|--|--|--|--|--|
| DOT | J.S. Department of Transportation | | | | | |
| TC | Transport Canada | | | | | |
| EPA | A U.S. Environmental Protection Agency | | | | | |
| DSL | DSL Canadian Domestic Substance List | | | | | |
| NDSL | L Canadian Non-Domestic Substance List | | | | | |
| PSL | PSL Canadian Priority Substances List | | | | | |
| TSCA | U.S. Toxic Substance Control Act | | | | | |
| EU | European Union (European Union Directive 67/548/EEC) | | | | | |
| WGK | K Wassergefährdungsklassen (German Water Hazard Class) | | | | | |

CLP/GHS (1272/2008/EC) PICTOGRAMS:

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|-----------|-----------|----------|-------------|------------|-------|-----------------------|------------------|-----------------|
| GHS01 | GHS02 | GHS03 | GHS04 | GHS05 | GHS06 | GHS07 | GHS08 | GHS09 |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful Irritating | Health Hazard | Environmen t |